

For Research Use Only

Cathepsin B Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 83998-4-PBS



Basic Information

Catalog Number: 83998-4-PBS	GenBank Accession Number: NM_001908.5	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1508	CloneNo.: 260854C10
Isotype: IgG	UNIPROT ID: P07858	
Immunogen Catalog Number: EG1020	Full Name: cathepsin B	
	Calculated MW: 38kDa	
	Observed MW: 31 kDa, 43 kDa	

Applications

Tested Applications:
WB, IP, Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Background Information

CTSB (Cathepsin B) is also named as CPSB and belongs to the peptidase C1 family. It participates in intracellular degradation and turnover of proteins. Cathepsin B precursors found in human malignant ascites fluid do not possess mannose-rich carbohydrates suggesting that a defect in the post translational processing of carbohydrate moieties on tumor. Cathepsin B exists as both glycosylated and unglycosylated forms (PMID:1637335). In rat macrophages and hepatocytes pro- cathepsin B is 39 kDa (unglycosylated =35 kDa), whereas in human fibroblasts procathepsin B is 44.5-46kDa (unglycosylated=39kDa) (PMID:2097084). It can be detected the 43 kDa form of pro-CTSB, 31 kDa and 25 kDa mature forms in mouse brain by western blot (PMID:20616152).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

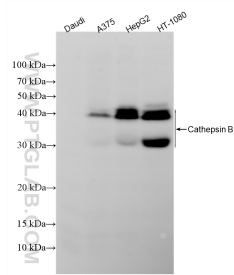
T: 4006900926

E: Proteintech-CN@ptglab.com

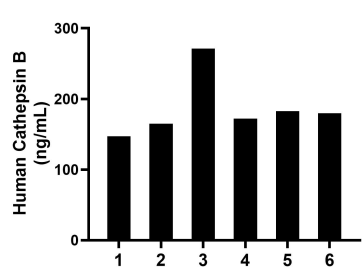
W: ptgcn.com

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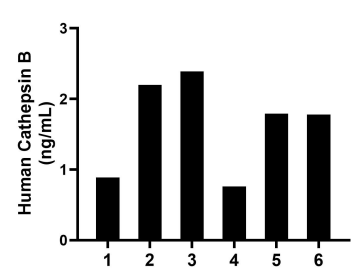
Selected Validation Data



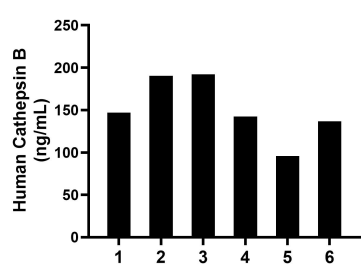
Various lysates were subjected to SDS PAGE followed by western blot with 83998-4-RR (Cathepsin B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83998-4-PBS in a different storage buffer formulation.



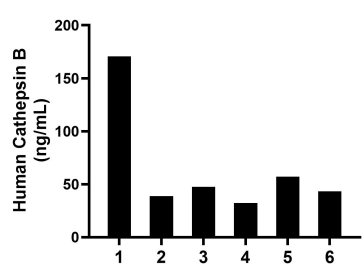
Urine of six individual healthy human donors was measured. The Cathepsin B concentration of detected samples was determined to be 1.64 ng/mL with a range of 0.76-2.39 ng/mL.



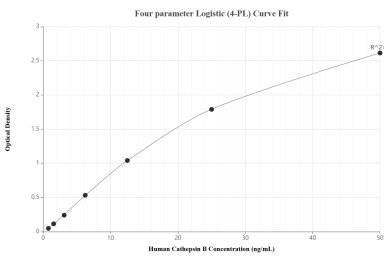
Saliva of six individual healthy human donors was measured. The Cathepsin B concentration of detected samples was determined to be 186.38 ng/mL with a range of 146.98-271.31 ng/mL.



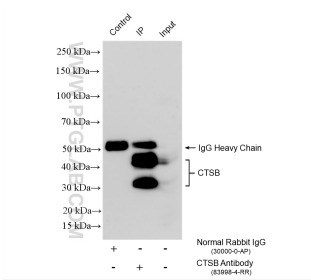
Human milk of six individual healthy human donors was measured. The Cathepsin B concentration of detected samples was determined to be 150.72 ng/mL with a range of 95.82-192.06 ng/mL.



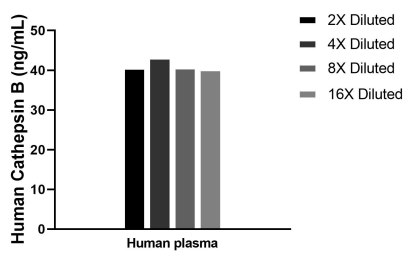
Plasma of six individual healthy human donors was measured. The Cathepsin B concentration of detected samples was determined to be 65.00 ng/mL with a range of 32.20-170.78 ng/mL.



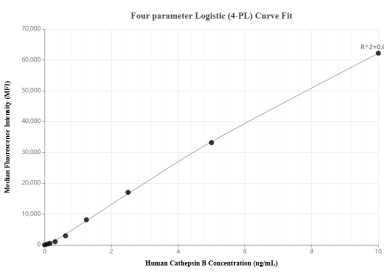
Sandwich ELISA standard curve of MP03489-1, Human Cathepsin B Recombinant Matched Antibody Pair - PBS only. 83998-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg1020. 83998-5-PBS was HRP conjugated as the detection antibody. Range: 0.781-50 ng/mL.



IP result of anti-Cathepsin B (IP: 83998-4-RR, 4ug; Detection: 83998-4-RR 1:600) with HepG2 cells lysate 1280 ug. This data was developed using the same antibody clone with 83998-4-PBS in a different storage buffer formulation.



The mean Cathepsin B concentration was determined to be 41.1 ng/mL in human plasma.



Cytometric bead array standard curve of MP03489-1, Cathepsin B Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83998-4-PBS. Detection antibody: 83998-5-PBS. Standard: Eg1020. Range: 0.078-10 ng/mL.